

#### (19) World Intellectual Property Organization International Bureau

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(43) International Publication Date 22 January 2004 (22.01.2004)

**PCT** 

## (10) International Publication Number WO 2004/008581 A1

(51) International Patent Classification7: 24/02, 33/20

H01R 13/62,

(21) International Application Number:

PCT/GB2003/003080

(22) International Filing Date:

16 July 2003 (16.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0216448.1

16 July 2002 (16.07.2002) GB

(71) Applicant and

(72) Inventor: MCLEISH, Graham [GB/GB]; Woolmill Croft, Ardlethen, Ellon AB41 8JE (GB).

(74) Agent: MURGITROYD & COMPANY; Scotland House, 165-169 Scotland Street, Glasgow G5 8QA (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

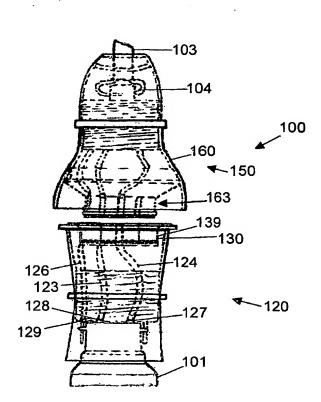
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

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(54) Title: CONNECTOR



(57) Abstract: An electrical connector (100) comprising a male (120) and female (150) part, each part (120, 150) having a magnet (135, 165) adapted to attract the parts (120, 150) together to make a connection. The parts (120, 150) can connect at any relative rotational orientation and preferred embodiments prevent offset connection between the magnets (135, 165) or parts (120, 150). The connector (100) is particularly suited for use in out of reach locations, for example to easily and safely replace light bulbs into sockets suspended from a ceiling.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



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PCT/GB 03/03080 A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01R13/62 H01R24/02 H01R33/20 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 HO1R HO1F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. 1-5, X FR 2 638 907 A (DALMAU RAYMOND ;TILHOS JEAN MARIE (FR)) 11 May 1990 (1990-05-11) 8-11,15, 29-33, 35,41 abstract page 1 -page 3 figures 1-6 22,23 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the inventor. "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international

filing date  *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clation or other special reason (as specified)  *O* document referring to an oral disclosure, use, exhibition or other means  *P* document published prior to the international filing date but later than the priority date claimed	<ul> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>			
Date of the actual completion of the international search	Date of mailing of the international search report			
6 October 2003	14/10/2003			
Name and mailing address of the ISA	Authorized officer			
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Chelbosu, L			
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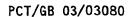


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1-5, 8-11,13, 15,24, 25, 29-32, 35,36
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Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. 🗀	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
з. 🗀	As only some of the required additional search fees were timely pald by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. 🗍	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1,3,9,22-25,30-32

Magnetic portions provided in each of male and female part of an electrical connector

2. Claims: 13-21,34-39

Terminals for an electrical connector

3. Claims: 2,4,8,10-12,33,41

Guiding means for an electrical connector

4. Claims: 7,40

Protective means for an electrical connector

5. Claims: 26-28

Means to allow the removal parts of an electrical connector

6. Claims: 5,6,29

Attaching parts for an electrical connector



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